

Title (en)

Shift assembly with a clutch and synchronisation device for a transmission

Title (de)

Schaltanordnung mit einer Kupplungs- und Synchronisierungseinrichtung für ein Getriebe

Title (fr)

Dispositif de changement de vitesse avec un dispositif de couplage et de synchronisation pour une boîte de vitesses

Publication

**EP 2837852 B1 20160323 (DE)**

Application

**EP 14002257 A 20140701**

Priority

- DE 102013012856 A 20130801
- DE 202013006944 U 20130801
- DE 202013007983 U 20130801
- DE 202013007987 U 20130801

Abstract (en)

[origin: US2015033887A1] A shifting arrangement for a transmission includes a shifting sleeve, a friction clutch and an actuating element. The shifting sleeve is rotatable between a first position, wherein a first free gear is rotatable relative to a shaft, and a second position, wherein the first free gear is rotatably fixed to the shaft. The friction clutch assembly is movable between a first position, wherein two parts are rotatable relative to one another, and a second position, wherein the two parts are frictionally coupled. The actuating element is movable between a neutral, intermediate and positions. In the neutral position, the shifting sleeve and the friction clutch assembly are in their first positions. In the intermediate position, the shifting sleeve is in its second position and the friction clutch assembly in its first position. In the shifting position, the shifting sleeve and the friction clutch assembly are in their second positions.

IPC 8 full level

**F16D 28/00** (2006.01); **F16H 3/00** (2006.01); **F16H 3/093** (2006.01); **F16H 63/18** (2006.01); **F16H 63/30** (2006.01)

CPC (source: CN EP US)

**B60W 10/02** (2013.01 - US); **B60W 10/11** (2013.01 - US); **F16D 28/00** (2013.01 - US); **F16H 63/02** (2013.01 - CN); **F16H 63/16** (2013.01 - CN); **F16H 63/30** (2013.01 - CN); **F16H 63/304** (2013.01 - EP US); **F16H 63/3043** (2013.01 - EP US); **F16D 2500/1045** (2013.01 - EP US); **F16D 2500/1082** (2013.01 - EP US); **F16H 3/093** (2013.01 - EP US); **F16H 2063/3056** (2013.01 - EP US); **F16H 2306/00** (2013.01 - CN); **Y10T 74/19251** (2015.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2837852 A1 20150218**; **EP 2837852 B1 20160323**; CN 104343968 A 20150211; CN 104343968 B 20180522; CN 204344901 U 20150520; US 2015033887 A1 20150205; US 9296381 B2 20160329

DOCDB simple family (application)

**EP 14002257 A 20140701**; CN 201410376816 A 20140801; CN 201420432792 U 20140801; US 201414448275 A 20140731